

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 05/15/2020  
Effective: 05/15/2020

Version: DMEF 2020 R0  
Status: Active

Instrument # 100375

Start Date: 8/31/21

Analysts: C. O'Bryant  
& Derek Watten

Reason for instrument evaluation

Preventative Maintenance

Visual Inspection

Clean

Replace missing screws

Cermetex Box is secure

Ensure modem cable present

Gas Valve upright or secured to wall

All tubing and connections are secure

O-ring inspection and ensure 2 O-rings in replacement bag

Troubleshooting/Repair

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

VOC (attached)

Internal Standard value  $\leq$  3.00%

Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

End Date: 8/31/21

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100375

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/31/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.69: 0.079  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 764 psi

BLANK TEST 0.000 15:03  
INTERNAL STANDARD VERIFIED 15:03  
Xq = 0.091 (0.48%)  
EXTERNAL STANDARD 0.079 15:04  
X[1] = 0.0793 (-0.0019) (-0.0019)  
BLANK TEST 0.000 15:05  
EXTERNAL STANDARD 0.079 15:05  
X[1] = 0.0793 (-0.0025) (-0.0018)  
BLANK TEST 0.000 15:06  
EXTERNAL STANDARD 0.079 15:06  
X[1] = 0.0793 (-0.0017) (-0.0015)  
BLANK TEST 0.000 15:07  
EXTERNAL STANDARD 0.079 15:07  
X[1] = 0.0793 (-0.0017) (-0.0015)  
BLANK TEST 0.000 15:08  
EXTERNAL STANDARD 0.079 15:08  
X[1] = 0.0791 (-0.0014) (-0.0016)  
BLANK TEST 0.000 15:09

Average = 0.0790  
Std Dev = 0.0000

## Diagnostic Check

VERSIONS  
DMT: 3.02  
PIC: 5.02  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.8°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 48.1°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.51 V PASSED  
(0.92 V - 2.16 V)  
Cooler Voltage = 1.60 V PASSED  
(0.92 V - 2.16 V)  
Bias Voltage = 79 V PASSED  
(47 V - 111 V)  
Chopper Freq = 532 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.7 in

### PUMP INFO

Flow Rate = 4.756 L/M PASSED  
(3.500 L/M - 6.500 L/M)

### DETECTOR INFO

PUMP ON PASSED  
(0.002 V <= 0.010 V)  
PUMP OFF PASSED  
(0.002 V <= 0.010 V)

### FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

INTERNAL STANDARD PASSED  
Xq = 0.091 (0.19%) (0.00% - 4.00%)